

# Work Order ID 71724

Thursday, July 07, 2011 3:10:50 PM



Page 1

Item ID: D407-558-045

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 7/21/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: *mk*

Date: *11-07-07*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and type labels as per PPP D407-558-045 and DSI 9436 CHG002

*Swatly*

*P10 -> HJ for CL 11-7-13*

110

0.00



Small Fab

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D206-558

*SP 11/07/13*

120

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

*Swatly*

*(X)*

W/O: 71724		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
11/7/13	#100	Perm. change ADD correct information to lesson box	E	11-07-14	N/A	W	S WAB

Part No: D407-558-045 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 71724**

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Item ID: D407-558-045

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Cust Item ID:

Required Date: 7/21/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

125

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

11/7/13

130

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

D. Wesley

41

140

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D407-558-045 and DSI 9436.  
Location: 72B  
PPP Rev:       

11/7/14

D. Wesley

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Start Date: 7/7/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 7/21/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

150

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

u/7/14 *[Signature]*  
mf  
11-07-14

# Picklist Print

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Page 1

Work Order ID: 71724

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec IPP Rev:B  
10.06.17 added grommet DD verf:EC IPP REV:C 11.01.19 AS  
PER chg002 DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN3-4A Bolt		Purchased	No			125	Each	623.0000	4	4			

Location Loc Qty Loc Code

ST350 623  
104291 300  
104625 300  
114374 23

AN526-1032R9 Screw		Purchased	No			125	Each	128.0000	4	4			
-----------------------	--	-----------	----	--	--	-----	------	----------	---	---	--	--	--

Location Loc Qty Loc Code

ST328 128  
116900 28  
117395 100

AN960JD10 Washer	NAS1149D0363J	Purchased	No			110	Each	0.0000	4	4			
---------------------	---------------	-----------	----	--	--	-----	------	--------	---	---	--	--	--

AN960JD10L Washer	NAS1149D0332J	Purchased	No			125	Each	0.0000	6	6			
----------------------	---------------	-----------	----	--	--	-----	------	--------	---	---	--	--	--

D2011-101 6" Mirror		Manufactured	No			110	Each	0.0000	1	1			
------------------------	--	--------------	----	--	--	-----	------	--------	---	---	--	--	--

1117601 (40)

B71729 (12)

11/7/13

11/7/13

11/7/13

11/7/13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Page 2

Work Order ID: 71724

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00

D2052  
Mounting Bracket

Manufactured No

110 Each

14.0000

2

2

Location

Loc Qty

Loc Code

GA

14

67743

14

Manufactured No

125 Each

7.0000

1

1

Location

Loc Qty

Loc Code

ST005

7

65837

7

Manufactured No

110 Each

44.0000

2

2

Location

Loc Qty

Loc Code

GA

44

67784

44

Manufactured No

110 Each

7.0000

1

1

Location

Loc Qty

Loc Code

GA

7

66184

7

Manufactured No

110 Each

12.0000

1

1

Location

Loc Qty

Loc Code

GA

12

71102

12

D2055  
Clamp

Manufactured No

110 Each

7.0000

1

1

D2056  
Bell Crank

Manufactured No

110 Each

12.0000

1

1

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 71724

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00



Manufactured No

110

Each

14.0000

1



*ES 11/07/13*

Location

Loc Qty

Loc Code

ST005

2

60880

2

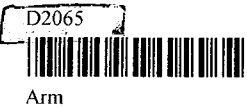
ST006

12

71103

12

*1*



Manufactured No

110

Each

12.0000

1



*ES 11/07/13*

Location

Loc Qty

Loc Code

ST229

12

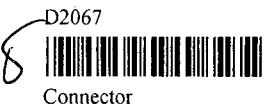
61381

2

71104

10

*1*



Manufactured No

125

Each

29.0000

1



*ES*

Location

Loc Qty

Loc Code

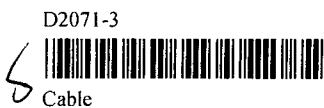
ST005

29

67403

29

*1*



Manufactured No

125

Each

8.0000

1



*11/7/13*

Location

Loc Qty

Loc Code

ST222

8

64745

8

*1*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Work Order ID: 71724

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00

D3778-1  
Bracket

Manufactured No

125 Each

7.0000

1

Location

Loc Qty

Loc Code

ST228

7

68695

7

MS21042L3

Purchased No

110 Each

1,823.000

2

Nut

Location

Loc Qty

Loc Code

ST300

1823

116549

153

117441

800

117601

400

117885

470

MS21042L3

Purchased No

125 Each

1,823.000

1

Nut

Location

Loc Qty

Loc Code

ST300

1823

116549

153

117441

800

117601

400

117885

470

MS21919-DG5

Purchased No

125 Each

56.0000

2

Clamp

Location

Loc Qty

Loc Code

ST306

56

117395

26

118077

30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Work Order ID: 71724

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/7/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-18

Purchased

No

110

Each

90.0000

2

2



Screw



9/5/11/07/13

Location

Loc Qty

Loc Code

ST292

90

115589

90

Each

16.0000

2

MS35489-67

Purchased

No



GROMMET



11/7/11/30

Location

Loc Qty

Loc Code

ST296

16

111193

16

1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

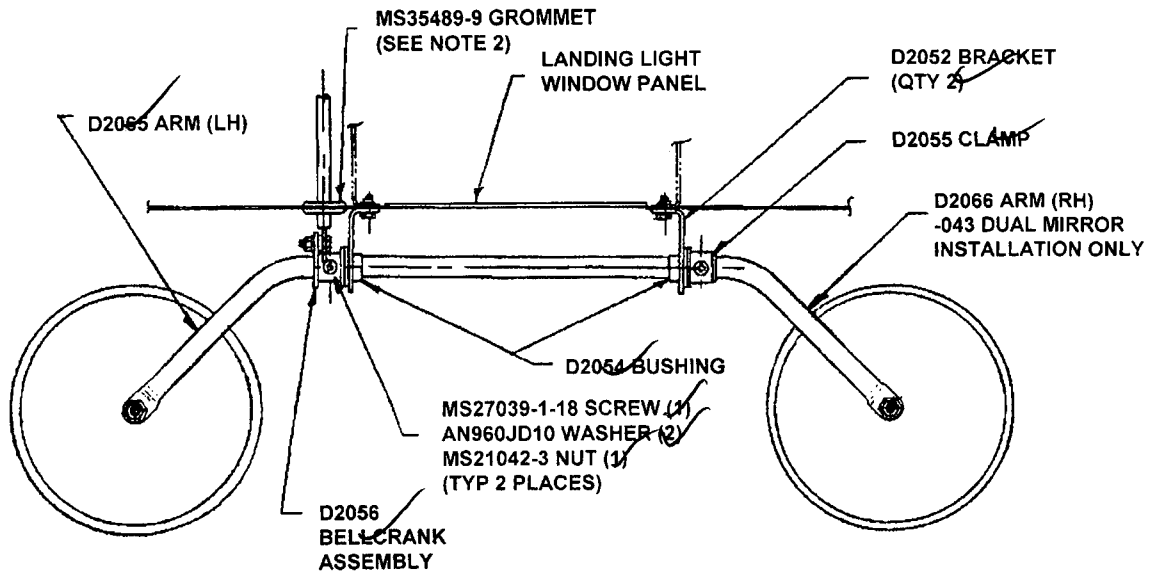


Figure 25.2 – View A: Looking Aft.  
(D206-558-043 Mirror Shown)

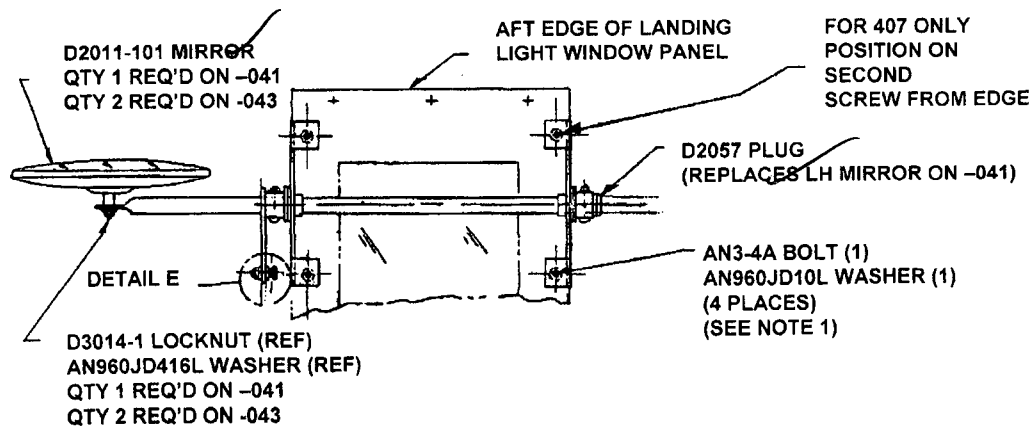
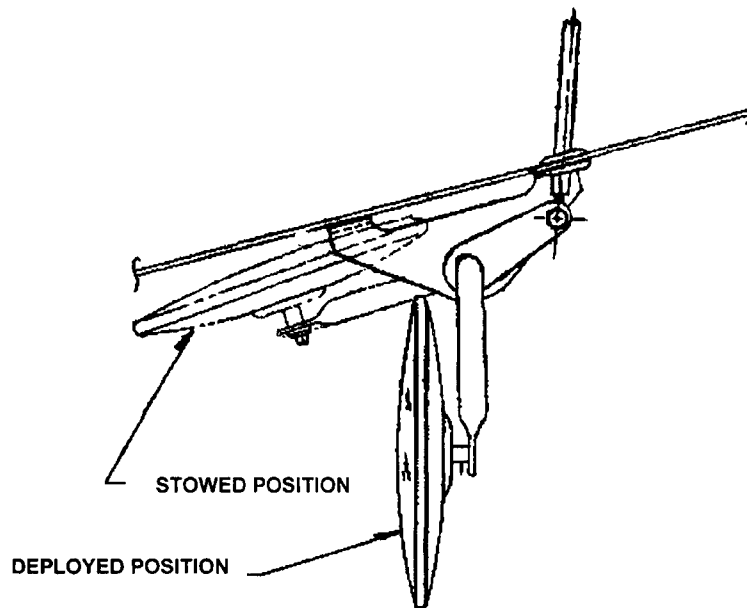


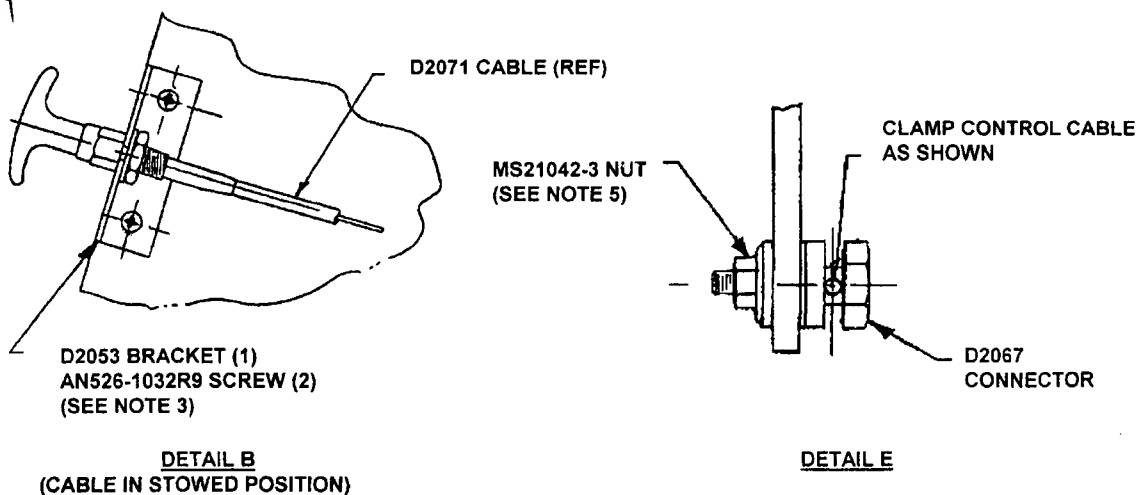
Figure 25.3 – View C: Looking Down on Mirror Installation  
(D206-558-041 Mirror Shown)

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**Figure 25.4** – Detail D: Looking from Side on Mirror Installation  
(D206-558-041/-043 Mirror Shown)

W/O: 71724



**Figure 25.5** – Details B and E on Mirror Installation  
(D206-558-041/-043 Mirror Shown)

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**REFERENCE ONLY**

FROM THIS POINT FORWARD, CUSTOMERS SHOULD ORDER D407-558-045/-047 IN LIEU OF D206-558-041/-043 WHEN PROCURING SINGLE/DUAL MIRRORS FOR BHT 407 MODELS. AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND 25.3 AND 25.4 OF ICA-D206-558 REV. 0 AS FOLLOWS:

**4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER)**

**25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)**

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
<b>D206-558-041</b>	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
<b>D206-558-043</b>	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg
<b>D407-558-045</b>	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
<b>D407-558-047</b>	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg

**5.0 PARTS LIST (D206-558 REV. C OR EARLIER)**

**25.4 PARTS LIST (ICA-D206-558 REV. 0)**

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	<del>2</del>	<del>2</del>	D2011-101	MIRROR ASSEMBLY
2	2	<del>2</del>	<del>2</del>	D2052	BRACKET
1	1	1	1	D2053	BRACKET
2	2	<del>2</del>	<del>2</del>	D2054	BUSHING
1	1	<del>1</del>	<del>1</del>	D2055	CLAMP
1	1	<del>1</del>	<del>1</del>	D2056	BELLCRANK ASSEMBLY
1		<del>1</del>	<del>1</del>	D2057	PLUG
1		<del>1</del>	<del>1</del>	D2065	ARM
	1		1	D2066	ARM
1	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-3	CABLE ASSEMBLY
1	2	<del>2</del>	<del>2</del>	D3014-1	* LOCKNUT
1	1	1	1	D3778-1	BRACKET
4	4	4	4	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	<del>1</del>	<del>2</del>	AN960JD416L	* WASHER
4	4	<del>4</del>	<del>4</del>	AN960JD10	WASHER
6	6	6	6	AN960JD10L	*WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3) <del>→Z</del>
2	2	2	2	MS21919DG5	CLAMP
2	2	<del>2</del>	<del>2</del>	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
		1	1	MS35489-67	GROMMET

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 08.12.04  
CERT. NO.: SH92-17  
ISSUE NO.: 7

DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	DSI 9436	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	CABLE CHANGE	NTS
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